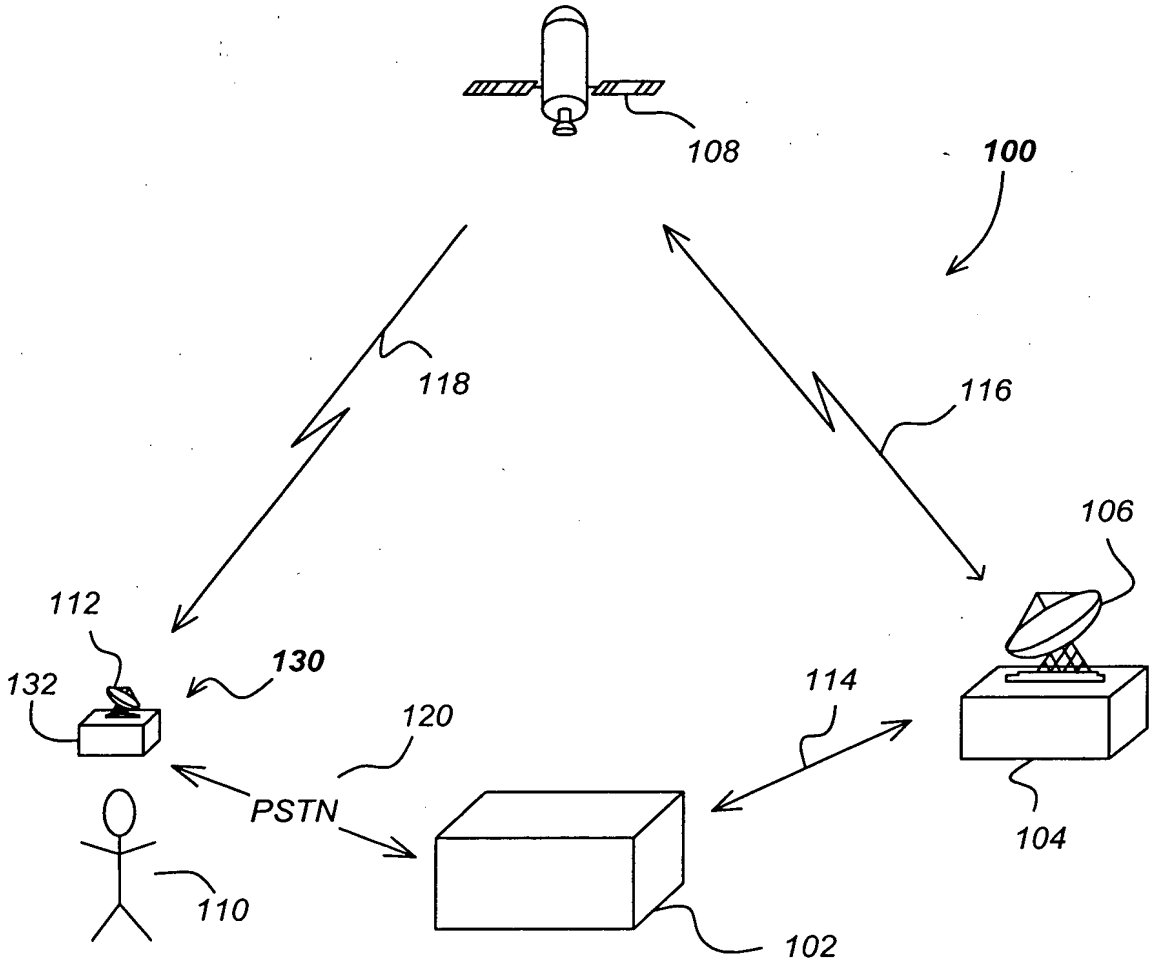

FIG. 1

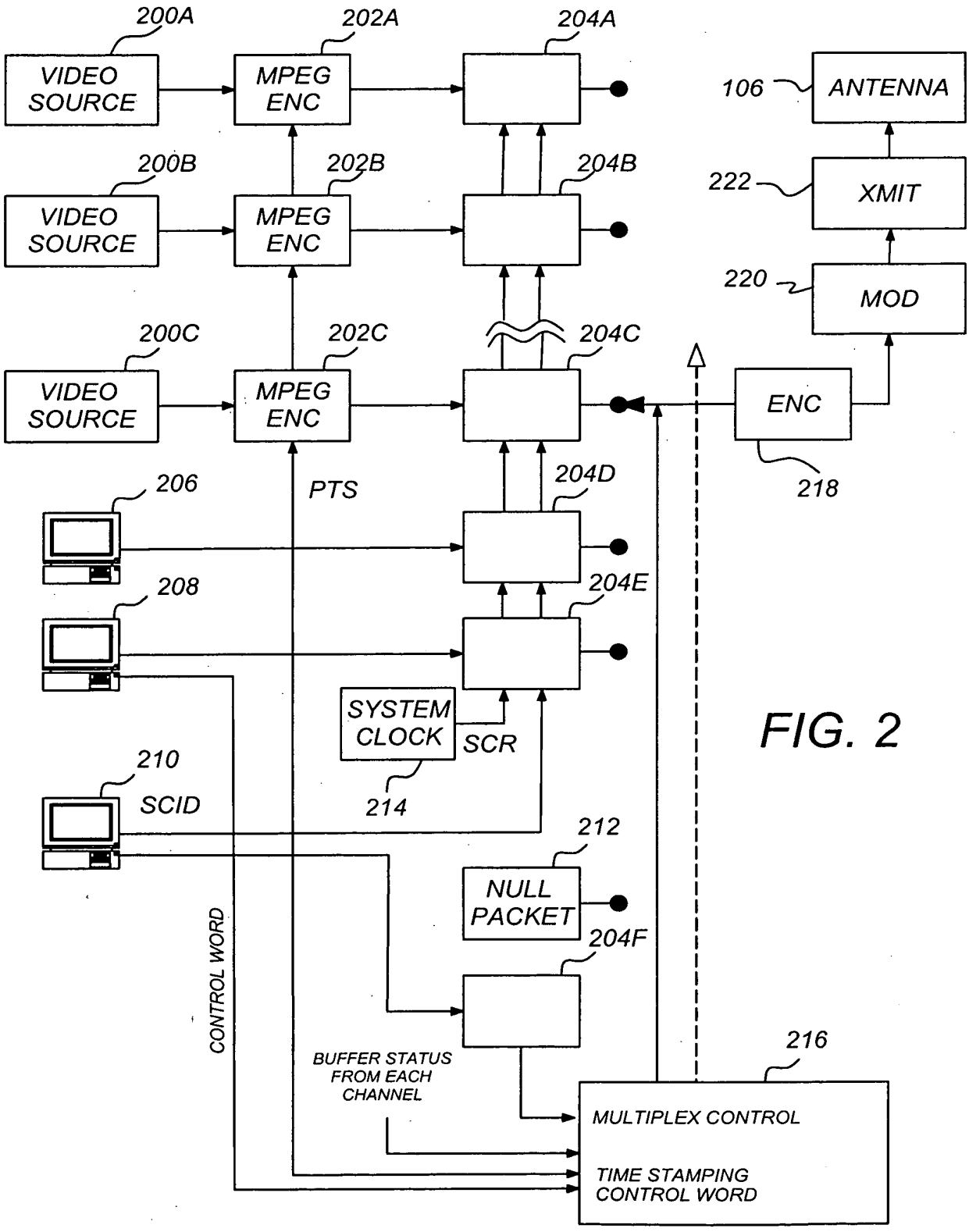
200A
VIDEO SOURCE
202A
MPEG ENC
204A
106
ANTENNA
200B
VIDEO SOURCE
202B
MPEG ENC
204B
222
XMIT
220
MOD
200C
VIDEO SOURCE
202C
MPEG ENC
204C
ENC
218
PTS
206
204D
208
204E
SYSTEM CLOCK
SCR
214
210
SCID
212
NULL PACKET
204F
CONTROL WORD
BUFFER STATUS FROM EACH CHANNEL
216
MULTIPLEX CONTROL
TIME STAMPING CONTROL WORD

FIG. 2

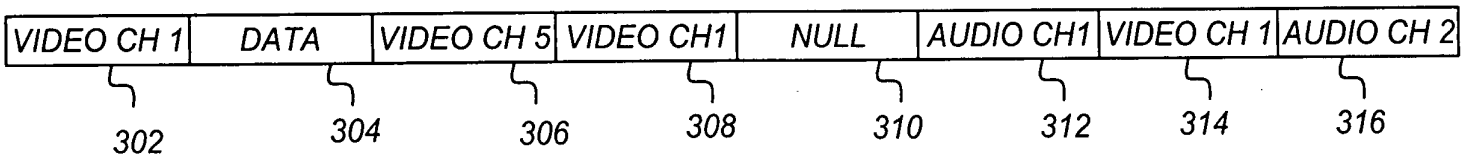
VIDEO CH 1
DATA
VIDEO CH 5
VIDEO CH1
NULL
AUDIO CH1
VIDEO CH 1
AUDIO CH 2
302
304
306
308
310
312
314
316

FIG. 3A

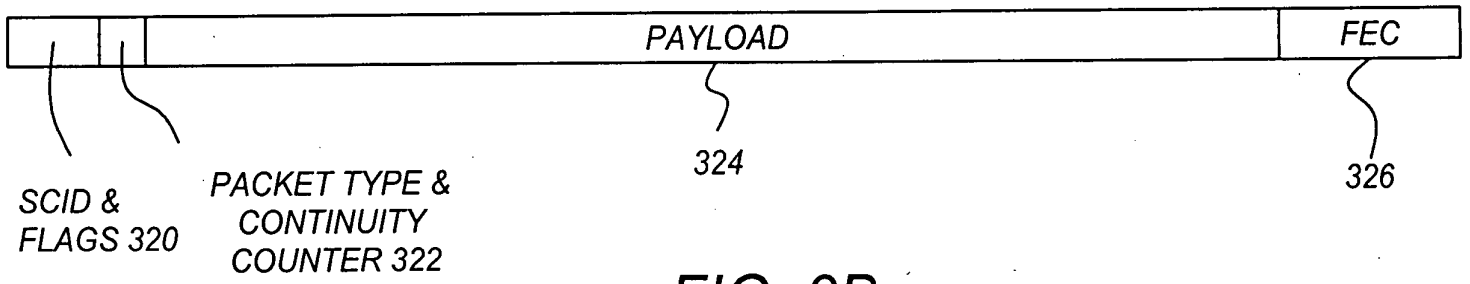
PAYLOAD
FEC
SCID & FLAGS 320
PACKET TYPE & CONTINUITY COUNTER 322
324
326

FIG. 3B

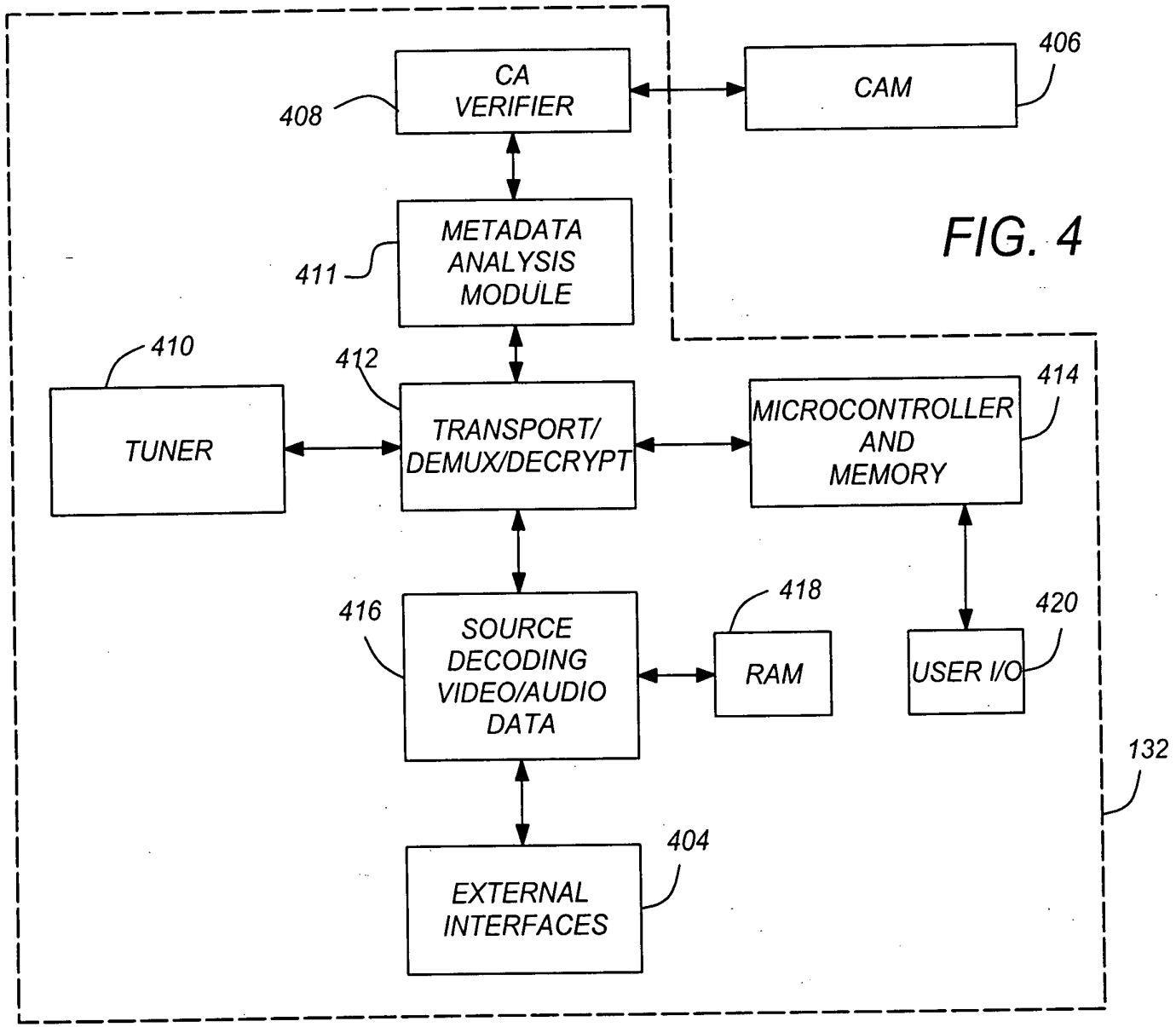
CA VERIFIER
408
CAM
406
METADATA ANALYSIS MODULE
411
410
TUNER
412
TRANSPORT/ DEMUX/DECRYPT
MICROCONTROLLER AND MEMORY
414
416
SOURCE DECODING VIDEO/AUDIO DATA
418
RAM
420
USER I/O
132
404
EXTERNAL INTERFACES

FIG. 4

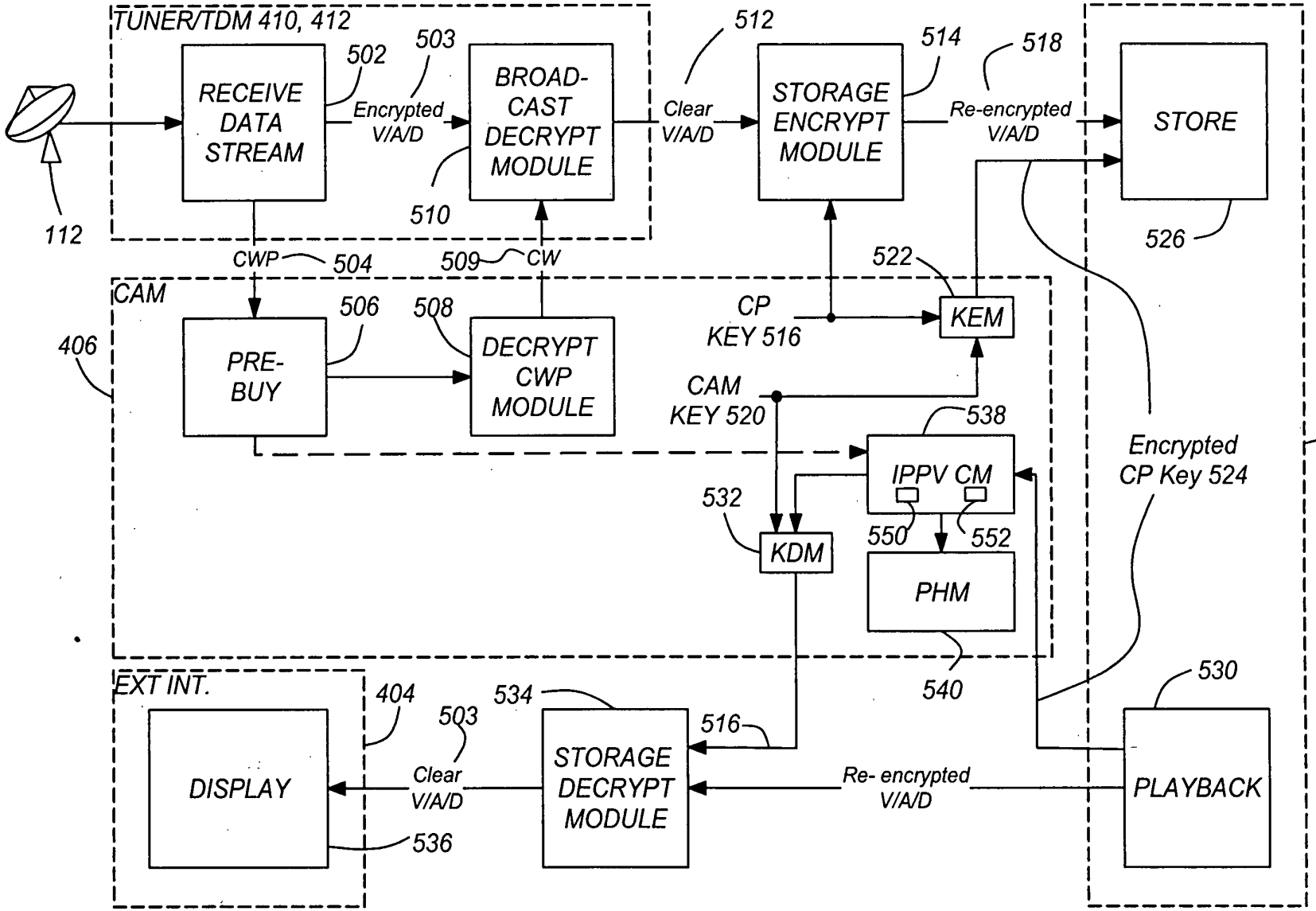
TUNER/TDM 410, 412
RECEIVE DATA STREAM
502
503
Encrypted V/A/D
BROAD-CAST DECRYPT MODULE
510
512
Clear V/A/D
STORAGE ENCRYPT MODULE
514
518
Re-encrypted V/A/D
STORE
526
112
CWP
504
509
CW
CAM
406
PRE-BUY
506
508
DECRYPT CWP MODULE
CP KEY 516
522
KEM
CAM KEY 520
538
IPPV CM
532
KDM
550
552
PHM
540
528
Encrypted CP Key 524
EXT INT.
404
DISPLAY
503
Clear V/A/D
534
STORAGE DECRYPT MODULE
516
Re- encrypted V/A/D
530
PLAYBACK
536

FIG. 5